



1/10

MSSAVLTLLPD PSSSFREDAPRPPVPGEGETPPCQPSVGKVQSTKMPVSSNARRNED 60
GLGEPEGRASPDSPLTRWTKSLHSLLDGDQDGAYLFRTFLEREKCVDTLDFWFACNGFRQM 120
NLKDTKTLRVAKAIYKRYIENNSVVSQQLKPATKTYIRDGIKKQQIGSVMFDQAQTEIQA 180
VMEENAYQVFLTSDIYLEYVRSGGENTAYMSNGGLGSLKVLGGLPTLNEEEEWTCADLK 240
CKLSPTVVGLSSKTLRATASVRSTETAENGGFRSFKRSDPVNPNYHVGSYVFPATSANDS 300
ELSSDALTDSDMSMTDSSVDGVPYRMGSKKQLQREMHRSVKANGQVSLPHFPRTHLRLPK 360
EMTPVEPAFAAELISRLKLELESRHSLERLQQIREDEEKEGSEQALSSRDGAPVQ 420
HPLALLPSGSYEEDPQTILDDHLSRVLKTGCGQSPGVGRYSPRSRSPDHHHQHHHHQQCH 480
TLLSTGGKLPPVAACPLLGGKSFLTQTTKHVHHHYIHHHAVPKTKEEIEAEATQRNVRL 540
CPGGTDYYCYSKCKHPKAPEPLPGEQFCGSRGGTLPKRNAKGTEPGLALSARDGGMSSA 600
AGGPQLPGEEGDRSQDVWQWMLESERQSKSKPHSAQSIRKSYPLESARAAPGERVSRHHL 660
LGASGHSRSVARAHPFTQDPAMPPLTPPNTLAQLEEACRRLAEVSKPQKQRCCVASQQRD 720
RMHSAAGQCAGASPFANPSLAPEDHKEPKKLASVHALQASELVVITYFFCGEEIPGYRRMLKA 780
QSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWDDDETVLPMYEGRILGKVERID 840

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| | |
|---|------|
| CAGCGGTTCCGCGATGGATTTCCGGGGCCACCGGAGGCCGAGGCGTCCGGCTCCCAAAGG | 60 |
| AGAGCTTTGCTGTAAAAGAGAGGAGGCTCACATGAGCCCTGCGTACTTAAGAGAGACCA | 120 |
| AGCCGATTGCTGAGAGGAAGTGAAGAACGAAAAGGAGGAGGAGGAAAAAGCAAAAC | 180 |
| AAAATCCAAACTCAGTGAGACGCTCTCCCTCACCATGAGTAGCGCCGTGTAGTGACTCT | 240 |
| CCTTTCCAGATCCACGACGAGCTTCCGCGAGGATGCTCCGCGGCCCCCGGTTCCGGGAGA | 300 |
| AGAAGGGGAGACCCACCGTCTACCCCTAGTGTGGGCAAGGTCCAGTCCACCAAACCTAT | 360 |
| GCCCGTTTCCTCTAATGCTAGGCGGAATGAAGATGGAAGTGGGGAGCCCGAGGGGCGGGC | 420 |
| CTCCCCGATTCCCCTTGACCAGGTGGACCAAGTCTTTACACTCCTTGTTGGGTGACCA | 480 |
| GGATGGTGCATACCTCTTCCGGAAGTTCTCGGAGAGGGAGAAATGTGTGGATACGCTGGA | 540 |
| CTTCTGGTTTGCTTTGTAATGGGTTCAGGCAAGATGAACCTGAAGGATACCAAACCTTGGC | 600 |
| AGTGGCCAAAGCAATCTATAAGAGGTACATTTGAGACAAACAGCGTTGGCGCCAAGCAGCT | 660 |
| GAAGCCCGCCACCAAGACCTACATACGAGATGGCATCAAGAAGCAACAGATCGGCTCGGT | 720 |
| CATGTTTGACCAGGCACAGACCGAGATCCAGGCAGTGATGGAGGAAAATGCCTACCAGGT | 780 |
| GTTCTTGACTTCTGACATTTACCTGGAATATGTGAGGAGTGGGGGGGAAAACACAGCTTA | 840 |
| CATGAGTAACGGGGGACTGGGGAGCCTAAAGGTCTTATGTGGCTACCTCCCCACCTTGAA | 900 |
| TGAAGAAGAGGAGTGGACGTGTGCCGACCTCAAGTGCAAACCTCTACCCACCGTGTTGG | 960 |
| CTTGTCAGCAAAACTCTTCGGGCCACCGCGAGTGTGAGATCCACGGAAACAGCTGAAAA | 1020 |
| CGGATTCAGGTCTTCAAGAGAAAGCGACCCAGTCAATCCTTATCACGTAGGTTCGGCTA | 1080 |
| TGCTTTTGCACAGCCACCGAGCGCCAACGACAGCGAGTATCCAGCGACGCACTGACCGA | 1140 |
| CGATTCATGTGCATGACGGACAGTAGCGTAGATGGAGTCCCTCCTTACCGCATGGGGAG | 1200 |
| TAAGAAACAGCTCCAGAGAGAGATGCATCGCAGTGTGAAGGCCAATGGCCCAAGTGCTCT | 1260 |
| ACCTCATTTTCGAGAACCCACCGCCTGCCCAAAGGAGATGACGCTGTGGAACCTGCTGC | 1320 |
| CTTCGCGCGGAGCTCATCTCCAGGCTGGAGAAACGAAACTGGAGCTGGAAAGCCGCCA | 1380 |
| TAGTCTGGAGGAGCGGCTGCAGCAGATCCGGGAGGATGAAGAAAGGAGGGGTCTGAGCA | 1440 |
| GGCCCTGAGCTCAGGGATGGAGCACCGGTCCAGCACCCCTGGCCCTCTACCCCTCCGG | 1500 |
| CAGCTATGAAGAGGACCCACAAACCATTTGGACGACCACCTCTCCAGGGTCTCAAGAC | 1560 |
| CCCCGGCTGTCAATCCCTGGTGTGGGTCTGCTACAGCCCAAGGTCCCGCTCCCCGACCA | 1620 |
| CCACCACCAGCACCACCACCATCAGCAGTGTATACCTTCTTTCGACTGGGGCAAGCT | 1680 |
| GCCCCCGTGGCTGCTTGCCCCCTCTTGGAGGCAAGAGCTTCCTGACCAACAGACGAC | 1740 |
| GAAGCACGTTACACCACCTACATCCACCACCACCGCTCCCAAGACCAAGGAGGAGAT | 1800 |
| CGAGGCAGAAAGCCACACAGAGAGTCCGCTGCCCTGTCTGCTGGGGAAACAGATATATTG | 1860 |
| CTACTCCAAATGCAAAAGCCACCCGAAGGTCCAGAGCCCTGCCCTGGGGAGCAGTGTG | 1920 |
| TGGCAGCAGAGGTGGTACCTTGCCAAAACGGAATGCAAAGGGCAOCCGAACCGGGTCTTG | 1980 |
| ACTGTCGGCCAAGGATGGAGGATGTCCAGTGCAGCGGGGGGCCCCAGCTTCTGGGGA | 2040 |
| AGAAGGAGACCGGTACAGGATGTCTGGCAGTGGATGTGGATAGTGAGCGGCAGAGCAA | 2100 |
| GTCCAAGCCCAATAGTGGCCAAAGCATAAGAAAGAGCTACCCATTGAGTCTGCCCGTGC | 2160 |
| GGCCCAGGAGAACGAGTCAGCCGGCACCATCTGTTGGGGGCCAGCGGACACTCCCGCTC | 2220 |
| AGTGGCCCGGGCTACCCATTTACCCAGGACCCTGCAATGCCCTCCCTTACCCCAOCCAA | 2280 |
| CACCTTGGCACAGCTAGAGGAAGCTGCCGCAGGCTGGCACAGGTGTCGAAGCCCCAGAA | 2340 |
| GCAGCGGTGCTGCGTGGCAGTACAGCAGAGGGACAGGAACCACTCGGCTGCTGGTCAGGC | 2400 |
| AGGAGCCTACCCCTTCGCCAACCCAAAGCCTGGCTCCAGAAGATCACAAGAGCCAAAGAA | 2460 |
| ACTGGCAAGTGTCCACGCGCTCCAGGGCAGTGAGCTGGTGTACCTACTTTTCTGTGG | 2520 |
| AGAAGAAATTCATACAGGAGGATGCTGAAGGCTCAAAGCTTGACCCTGGGCCACTTCAA | 2580 |
| GGAGCAGCTCAGCAAAAAGGGAAATTACACAGGTATATTTCAAGAAGGCAGTGACGAATT | 2640 |
| TGCCTGCGGAGCAGTTTGTGAGGAGATCTGGGACGACGAGACAGTGCTCCCCATGTACGA | 2700 |
| AGGCAGGATCCTGGGCAAGTGGAGAGGATCAGTGAAGCTTGGCCTCTCGGCGTGCAA | 2760 |
| CCTGGGCAAGCACTCGGCTGTCACCATGGAGCCGAAGCCAGAGACCCGTCTCAGGCC | 2820 |
| TAAGC | 2825 |

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| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|----------|----------|----------|
| 215 | ATG | AGT | AGC | GCC | GTG | TTA | GTG | ACT |
| 1 | M | S | S | A | V | L | V | T |
| CTC | CTT | CCA | GAT | CCC | AGC | AGC | AGC | TTC |
| L | L | P | D | P | S | S | S | F |
| CGC | GAG | GAT | GCT | CCG | CGG | CCC | CCG | GTT |
| R | E | D | A | P | R | P | P | V |
| CCG | GGA | GAA | GAA | GGG | GAG | ACC | CCA | CCG |
| P | G | E | E | G | E | T | P | P |
| TGT | CAG | CCT | AGT | GTG | GGC | AAG | GTC | CAG |
| C | Q | P | S | V | G | K | V | Q |
| TCC | ACC | AAA | CCT | ATG | CCC | GTT | TCC | TCT |
| S | T | K | P | M | P | V | S | S |
| AAT | GCT | AGG | CGG | AAT | GAA | GAT | GGA | CTG |
| N | A | R | R | N | E | D | G | L |
| GGG | GAG | CCC | GAG | GGG | CGG | GCC | TCC | CCC |
| G | E | P | E | G | R | A | S | P |
| GAT | TCC | CCT | TTG | ACC | AGG | TGG | ACC | AAG |
| D | S | P | L | T | R | <u>W</u> | <u>T</u> | <u>K</u> |
| TCT | TTA | CAC | TCC | TTG | TTG | GGT | GAC | CAG |
| S | L | H | S | L | L | G | D | Q |
| GAT | GGT | GCA | TAC | CTC | TTC | CGG | ACT | TTC |
| D | G | A | Y | L | F | R | T | F |
| CTG | GAG | AGG | GAG | AAA | TGT | GTG | GAT | ACG |
| L | E | R | E | K | C | V | D | T |
| CTG | GAC | TTC | TGG | TTT | GCT | TGT | AAT | GGG |
| L | D | F | W | F | A | C | N | G |

Abb. 3

ERSATZBLATT (REGEL 26)

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| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| TTC | AGG | CAG | ATG | AAC | CTG | AAG | GAT | ACC |
| F | R | Q | M | N | L | K | D | T |
| AAA | ACT | TTG | CGA | GTG | GCC | AAA | GCA | ATC |
| K | T | L | R | V | A | K | A | I |
| TAT | AAG | AGG | TAC | ATT | GAG | AAC | AAC | AGC |
| Y | K | R | Y | I | E | N | N | S |
| GTT | GTC | TCC | AAG | CAG | CTG | AAG | CCC | GCC |
| V | V | S | K | Q | L | K | P | A |
| ACC | AAG | ACC | TAC | ATA | CGA | GAT | GGC | ATC |
| T | K | T | Y | I | R | D | G | I |
| AAG | AAG | CAA | CAG | ATC | GGC | TCG | GTC | ATG |
| K | K | Q | Q | I | G | S | V | M |
| TTT | GAC | CAG | GCA | CAG | ACC | GAG | ATC | CAG |
| F | D | Q | A | Q | T | E | I | Q |
| GCA | GTG | ATG | GAG | GAA | AAT | GCC | TAC | CAG |
| A | V | M | E | E | N | A | Y | Q |
| GTG | TTC | TTG | ACT | TCT | GAC | ATT | TAC | CTG |
| V | F | L | T | S | D | I | Y | L |
| GAA | TAT | GTG | AGG | AGT | GGG | GGG | GAA | AAC |
| E | Y | V | R | S | G | G | E | N |
| ACA | GCT | TAC | ATG | AGT | AAC | GGG | GGA | CTG |
| T | A | Y | M | S | N | G | G | L |
| GGG | AGC | CTA | AAG | GTC | TTA | TGT | GGC | TAC |
| G | S | L | K | V | L | C | G | Y |
| CTC | CCC | ACC | TTG | AAT | GAA | GAA | GAG | GAG |
| L | P | T | L | N | E | E | E | E |

Abb. 3

ERSATZBLATT (REGEL 26)

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| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| TGG W | ACG T | TGT C | GCC A | GAC D | CTC L | AAG K | TGC C | AAA K |
| CTC L | TCA S | CCC P | ACC T | GTG V | GTT V | GGC G | TTG L | TCC S |
| AGC S | AAA K | ACT T | CTT L | CGG R | GCC A | ACC T | GCG A | AGT S |
| GTG V | AGA R | TCC S | ACG T | GAA E | ACA T | GCT A | GAA E | AAC N |
| GGA G | TTC F | AGG R | TCC S | TTC F | AAG K | AGA R | AGC S | GAC D |
| CCA P | GTC V | AAT N | CCT P | TAT Y | CAC H | GTA V | GGT G | TCC S |
| GGC G | TAT Y | GTC V | TTT F | GCA A | CCA P | GCC A | ACC T | AGC S |
| GCC A | AAC N | GAC D | AGC S | GAG E | TTA L | TCC S | AGC S | GAC D |
| GCA A | CTG L | ACC T | GAC D | GAT D | TCC S | ATG M | TCC S | ATG M |
| ACG T | GAC D | AGT S | AGC S | GTA V | GAT D | GGA G | GTC V | CCT P |
| CCT P | TAC Y | CGC R | ATG M | GGG G | AGT S | AAG K | AAA K | CAG Q |
| CTC L | CAG Q | AGA R | GAG E | ATG M | CAT H | CGC R | AGT S | GTG V |
| AAG K | GCC A | AAT N | GGC G | CAA Q | GTG V | TCT S | CTA L | CCT P |
| CAT H | TTT F | CCG P | AGA R | ACC T | CAC H | CGC R | CTG L | CCC P |

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ERSATZBLATT (REGEL 26)

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AAG | GAG | ATG | ACG | CCT | GTG | GAA | CCT | GCT |
| K | E | M | T | P | V | E | P | A |
| GCC | TTC | GCC | GCC | GAG | CTC | ATC | TCC | AGG |
| A | F | A | A | E | L | I | S | R |
| CTG | GAG | AAA | CTG | AAA | CTG | GAG | CTG | GAA |
| L | E | K | L | K | L | E | L | E |
| AGC | CGC | CAT | AGT | CTG | GAG | GAG | CGG | CTG |
| S | R | H | S | L | E | E | R | L |
| CAG | CAG | ATC | CGG | GAG | GAT | GAA | GAA | AAG |
| Q | Q | I | R | E | D | E | E | K |
| GAG | GGG | TCT | GAG | CAG | GCC | CTG | AGC | TCA |
| E | G | S | E | Q | A | L | S | S |
| CGG | GAT | GGA | GCA | CCG | GTC | CAG | CAC | CCC |
| R | D | G | A | P | V | Q | H | P |
| CTG | GCC | CTC | CTA | CCC | TCC | GGC | AGC | TAT |
| L | A | L | L | P | S | G | S | Y |
| GAA | GAG | GAC | CCA | CAA | ACC | ATT | TTG | GAC |
| E | E | D | P | Q | T | I | L | D |
| GAC | CAC | CTC | TCC | AGG | GTC | CTC | AAG | ACC |
| D | H | L | S | R | V | L | K | T |
| CCC | GGC | TGT | CAA | TCC | CCT | GGT | GTG | GGT |
| P | G | C | Q | S | P | G | V | G |
| CGC | TAC | AGC | CCA | CGG | TCC | CGC | TCC | CCC |
| R | Y | S | P | R | S | R | S | P |
| GAC | CAC | CAC | CAC | CAG | CAC | CAC | CAC | CAT |
| D | H | H | H | Q | H | H | H | H |

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ERSATZBLATT (REGEL 26)

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| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CAG | CAG | TGT | CAT | ACC | CTT | CTT | TCG | ACT |
| Q | Q | C | H | T | L | L | S | T |
| GGG | GGC | AAG | CTG | CCC | CCC | GTG | GCT | GCT |
| G | G | K | L | P | P | V | A | A |
| TGC | CCC | CTC | CTT | GGA | GGC | AAG | AGC | TTC |
| C | P | L | L | G | G | K | S | F |
| CTG | ACC | AAA | CAG | ACG | ACG | AAG | CAC | GTT |
| L | T | K | Q | T | T | K | H | V |
| CAC | CAC | CAC | TAC | ATC | CAC | CAC | CAC | GCC |
| H | H | H | Y | I | H | H | H | A |
| GTC | CCC | AAG | ACC | AAG | GAG | GAG | ATC | GAG |
| V | P | K | T | K | E | E | I | E |
| GCA | GAA | GCC | ACA | CAG | AGA | GTC | CGC | TGC |
| A | E | A | T | Q | R | V | R | C |
| CTC | TGT | CCT | GGG | GGA | ACA | GAT | TAT | TAT |
| L | C | P | G | G | T | D | Y | Y |
| TGC | TAC | TCC | AAA | TGC | AAA | AGC | CAC | CCG |
| C | Y | S | K | C | K | S | H | P |
| AAG | GCT | CCA | GAG | CCC | CTG | CCT | GGG | GAG |
| K | A | P | E | P | L | P | G | E |
| CAG | TTT | TGT | GGC | AGC | AGA | GGT | GGT | ACC |
| Q | F | C | G | S | R | G | G | T |
| TTG | CCA | AAA | CGG | AAT | GCA | AAG | GGC | ACC |
| L | P | K | R | N | A | K | G | T |
| GAA | CCG | GGT | CTT | GCA | CTG | TCG | GCC | AGG |
| E | P | G | L | A | L | S | A | R |
| GAT | GGA | GGG | ATG | TCC | AGT | GCA | GCG | GGG |
| D | G | G | M | S | S | A | A | G |

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ERSATZBLATT (REGEL 26)

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GGC | CCC | CAG | CTT | CCT | GGG | GAA | GAA | GGA |
| G | P | Q | L | P | G | E | E | G |
| GAC | CGG | TCA | CAG | GAT | GTC | TGG | CAG | TGG |
| D | R | S | Q | D | V | W | Q | W |
| ATG | TTG | GAG | AGT | GAG | CGG | CAG | AGC | AAG |
| M | L | E | S | E | R | Q | S | K |
| TCC | AAG | CCC | CAT | AGT | GCC | CAA | AGC | ATA |
| S | K | P | H | S | A | Q | S | I |
| AGA | AAG | AGC | TAC | CCA | TTG | GAG | TCT | GCC |
| R | K | S | Y | P | L | E | S | A |
| CGT | GCG | GCC | CCA | GGA | GAA | CGA | GTC | AGC |
| R | A | A | P | G | E | R | V | S |
| CGG | CAC | CAT | CTG | TTG | GGG | GCC | AGC | GGA |
| R | H | H | L | L | G | A | S | G |
| CAC | TCC | CGC | TCA | GTG | GCC | CGG | GCT | CAC |
| H | S | R | S | V | A | R | A | H |
| CCA | TTT | ACC | CAG | GAC | CCT | GCA | ATG | CCT |
| P | F | T | Q | D | P | A | M | P |
| CCC | CTT | ACC | CCA | CCC | AAC | ACT | TTG | GCA |
| P | L | T | P | P | N | T | L | A |
| CAG | CTA | GAG | GAA | GCC | TGC | CGC | AGG | CTG |
| Q | L | E | E | A | C | R | R | L |
| GCA | GAG | GTG | TCG | AAG | CCC | CAG | AAG | CAG |
| A | E | V | S | K | P | Q | K | Q |
| CGG | TGC | TGC | GTG | GCC | AGT | CAG | CAG | AGG |
| R | C | C | V | A | S | Q | Q | R |

Abb. 3

ERSATZBLATT (REGEL 26)

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| | | | | | | | | |
|-----|-----|-----|-----|------|------|-----|-----|-----|
| GAC | AGG | AAC | CAC | TCG | GCT | GCT | GGT | CAG |
| D | R | N | H | S | A | A | G | Q |
| GCA | GGA | GCC | TCA | CCC | TTC | GCC | AAC | CCA |
| A | G | A | S | P | F | A | N | P |
| AGC | CTG | GCT | CCA | GAA | GAT | CAC | AAA | GAG |
| S | L | A | P | E | D | H | K | E |
| CCA | AAG | AAA | CTG | GCA | AGT | GTC | CAC | GCG |
| P | K | K | L | A | S | V | H | A |
| CTC | CAG | GCC | AGT | GAG | CTG | GTT | GTC | ACC |
| L | Q | A | S | E | L | V | V | T |
| TAC | TTT | TTC | TGT | GGA | GAA | GAA | ATT | CCA |
| Y | F | F | C | G | E | E | I | P |
| TAC | AGG | AGG | ATG | CTG | AAG | GCT | CAA | AGC |
| Y | R | R | M | L | K | A | Q | S |
| TTG | ACC | CTG | GGC | CAC | TTC | AAG | GAG | CAG |
| L | T | L | G | H | F | K | E | Q |
| CTC | AGC | AAA | AAG | GGA | AAT | TAC | AGG | TAT |
| L | S | K | K | G | N | Y | R | Y |
| TAT | TTC | AAG | AAG | GCG | AGT | GAC | GAA | TTT |
| Y | F | K | K | A | S | D | E | F |
| GCC | TGC | GGA | GCA | GTT | TTT | GAG | GAG | ATC |
| A | C | G | A | V | F | E | E | I |
| TGG | GAC | GAC | GAG | ACA | GTG | CTC | CCC | ATG |
| W | D | D | E | T | V | L | P | M |
| TAC | GAA | GGC | AGG | ATC | CTG | GGC | AAA | GTG |
| Y | E | G | R | I | L | G | K | V |
| GAG | AGG | ATC | GAC | TGA | 2737 | | | |
| E | R | I | D | STOP | | | | |

Abb. 3

ERSATZBLATT (REGEL 26)

| CONDUCTIN KONSTRUKTE | | INTERAKTION MIT | | | | ABBAU VON b-CATENIN IN SW480 ZELLEN |
|----------------------|---|-----------------|--------|--------|-------|--|
| | | b-CATENIN | APC #1 | APC #2 | GSK3b | |
| 1 78 | 200 343 396 465 | 840 | | | | |
| | <div><div>RGS</div><div><div>GSK</div><div>BD</div><div>βBD</div></div></div> | 220 | 6 | 9 | 18 | ja |
| 79 | 280 | 490 | 0 | 0 | n.d. | ja |
| | <div><div><div>GSK</div><div>BD</div><div>βBD</div></div></div> | 1060 | 0 | 0 | 670 | nein |
| | <div><div><div>GSK</div><div>BD</div><div>βBD</div></div></div> | 0 | 190 | 260 | 0 | nein |
| | 338 472 | 0 | 110 | 250 | 84 | nein |
| | <div><div>RGS</div><div><div>GSK</div><div>BD</div></div></div> | 0 | 390 | 390 | 0 | nein |
| | <div><div>RGS</div></div> | | | | | |

Abb. 4